FEATURES：

- Wide input range
- Continuous short-circuit protection,self recover
- I/O isolation voltage 1.5KV
- Working temperature：-40℃～+85℃
- No additional components required
- Stable performance and high reliability (MTBF≥1000K hours)
- Industry standard pin-out
- Metal case
- DIP package

Selection Guide

Part No.	INPUT		OUTPUT				CapacitiveLoad(μF)
	Norminal (Vdc)	Range (Vdc)	Voltage (V1dc)	current (mA)	Voltage (V2dc)	current (mA)	
LD30-12S05E	12	9-18	5	6000			
LD30-12S09E			9	3333			
LD30-12S12E			12	2500			
LD30-12S15E			15	2000			
LD30-12S18E			18	1667			
LD30-12S24E			24	1250			
LD30-12S28E			28	893			
LD30-12S48E			48	625			
LD30-12D05E			+5	3000	-5	3000	
LD30-12D12E			+12	1250	-12	1250	
LD30-18S05E	18	9-36	5	6000			
LD30-18S09E			9	3333			
LD30-18S12E			12	2500			
LD30-18S15E			15	2000			
LD30-18S18E			18	1667			
LD30-18S24E			24	1250			
LD30-18S28E			28	893			
LD30-18S48E			48	625			
LD30-18D05E			+5	3000	-5	3000	
LD30-18D12E			+12	1250	-12	1250	
LD30-24S05E	24	18-36	5	6000			
LD30-24S09E			9	3333			
LD30-24S12E			12	2500			
LD30-24S15E			15	2000			
LD30-24S18E			18	1667			
LD30-24S24E			24	1250			
LD30-24S28E			28	893			
LD30-24S48E			48	625			

LD30-24D05E			+5	3000	-5	3000	
LD30-24D12E			+12	1250	-12	1250	
LD30-24D15E			+15	1000	-15	1000	
LD30-36S05E	36	18-72	5	6000			
LD30-36S09E			9	3333			
LD30-36S12E			12	2500			
LD30-36S15E			15	2000			
LD30-36S18E			18	1667			
LD30-36S24E			24	1250			
LD30-36S28E			28	893			
LD30-36S48E			48	625			
LD30-36D05E			+5	3000	-5	3000	
LD30-36D12E			+12	1250	-12	1250	
LD30-48S05E	36	18-72	5	6000			
LD30-48S09E			9	3333			
LD30-48S12E			12	2500			
LD30-48S15E			15	2000			
LD30-48S18E			18	1667			
LD30-48S24E			24	1250			
LD30-48S28E			28	893			
LD30-48S48E			48	625			
LD30-48D05E			+5	3000	-5	3000	
LD30-48D12E			+12	1250	-12	1250	
LD30-48D15E			+15	1000	-15	1000	
LD30-110S05E	110	72-144	5	6000			
LD30-110S09E			9	3333			
LD30-110S12E			12	2500			
LD30-110S15E			15	2000			
LD30-110S18E			18	1667			
LD30-110S24E			24	1250			
LD30-110S28E			28	893			
LD30-110S48E			48	625			
LD30-110D05E			+5	3000	-5	3000	
LD30-110D12E			+12	1250	-12	1250	
LD30-110D15E			+15	1000	-15	1000	

customized accepted,pls contact sales for details

Input Specifications

	Input Voltage Range（Vdc）	Nom(Vdc)	Max（Vdc）
Input Voltage	9-18	12	18
	9-36	18	36
	18-36	24	36

	18-72	36	72
	36-72	48	72
	72-144	110	144
Hot Plug	Unavailable		

Output Specifications

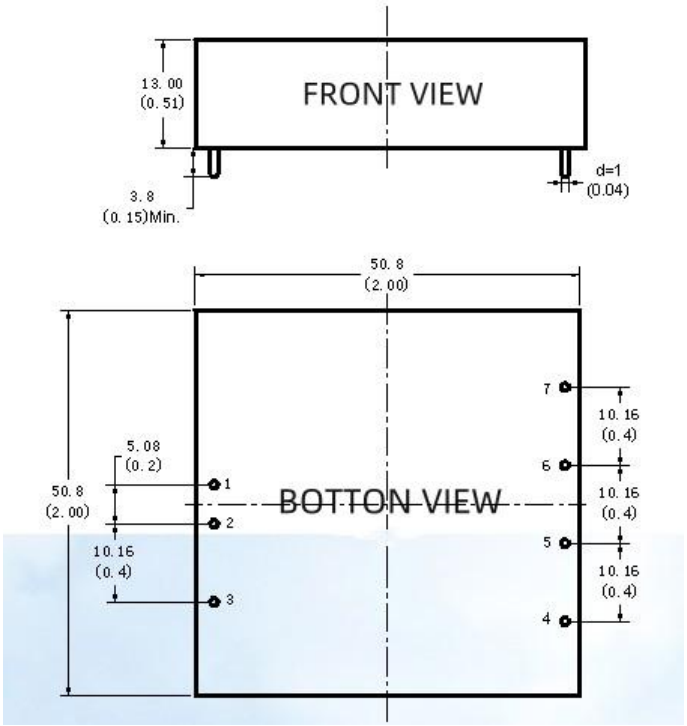
Item	Typ	Max	Test Conditions
Voltage Accuracy	±1%	±3%	0-100% load
Line Regulation	±0.2%	±0.5%	Input voltage variation from low to high at full load
Load Regulation	±0.5%	±1%	5%-100% load
Ripple&Noise	-	100mVp-p	20MHz bandwidth, 5%-100% load
Transient Recovery Time	300μs	500μs	25% load step change, Nominal input voltage
Over-voltage Protection	-	160%Vo	110%Vo(Min)
Over-current Protection	140%Io	190%Io	110%Io(Min)
Short-circuit Protection			Continuous, self-recovery

Gerneral Specifications

Switching Frequency	300KHz(Typ)	PWM mode
MTBF	1000 K hours	MIL-HDBK-217F@25℃
Temperature Coefficient	0.03%/℃	100% full load
Isolation（Input-Output）	1.5KVDC	
Insulation Resistance	1000MΩ	Input-output resistance 500Vdc
Operating Temperature	-40～+85℃	
Storage Temperature	-55～+125℃	
Storage Humidity	5-95%	Non-condensing
Cooling Method	Free air convection	
Case Material	Aluminum alloy	
Weight	60g（Typ）	

**Unless specified, otherwise all other parameters are tested under the following conditions: nominal input voltage, pure resistive load, 25℃ room temperature environment.

Dimensions and Recommended Layout

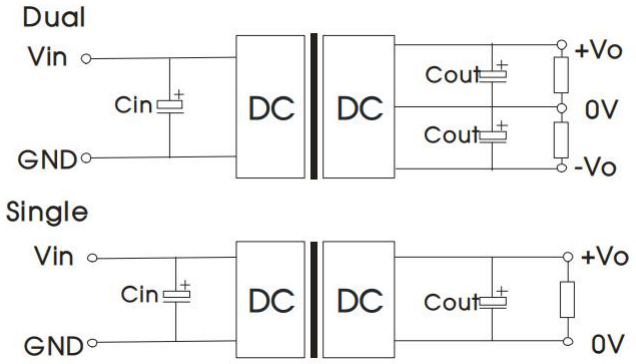


Note:
Unit: mm[inch]
Pin diameter tolerances: ± 0.10[± 0.004]
General tolerances: ± 0.50[± 0.020]

Pins

Pin	Single	Dual	Triple
1	+Vin	+Vin	+Vin
2	-Vin	-Vin	-Vin
3	REM	REM	REM
4	TRIM	TRIM	Vo3
5	GND	-Vo2	COM
6	Vo1	COM	+Vo1
7	No Pin	-Vo1	-Vo2

Recommended Circuit



Recommended input and output capacitor values				
Vin	Cin	Cout		
5	100uF/16V			
12	100uF/25V			
24	10uF/50V-47uF/50V			
48	10uF/100V-47uF/100V			

Noted

1. Input current: Ensure that the output current of the power supply meets the instantaneous starting current of the power module (that is, twice the average input current of the power module).
2. Output load requirements: Avoid no-load use. When the actual power consumption of the load is less than 10% of the rated output power of the module or no load occurs, connect an external resistance to the output end (the sum of the external resistance and the load power is greater than or equal to 10% of the rated load) or select a module with a smaller rated power.
3. The external capacitance of the output end should not be too large; otherwise, the module may be overcurrent or poorly started. For details, see the external capacitance recommendation table.
4. External LC filter circuit can be connected for occasions with high ripple noise requirements.